

TESTING OVERVIEW

Opt4® Mesh

April 2018

Summary

Opt4 mesh was thoroughly tested to prove its strength, durability, and cleanability. The results inspire confidence in its long-lasting performance. KI ensures low life-cycle costs and ease of ownership with a standard 15-year warranty for all seating products.

Warranty

Opt4 mesh is a structural component of Opt4 seating and therefore is also covered by the 15-year warranty.



BIFMA Testing

BIFMA tests, shown in the chart below, apply repeated loads to the mesh. After testing, the Opt4 mesh was inspected and found to still be serviceable.

Test	Load	Notes
Back Durability	75 Pounds	120,000 Cycles
Back Strength	250 Pounds	Held for 1 Minute
Seating Impact	125 Pounds	Dropped 1.2" 80,000 Cycles
Drop Test	300 Pounds	Dropped 6" One Time

ASTM D 2261 Tear Strength of Fabric

This test cuts slits into samples of fabric, then measures the amount of force it takes to continue tearing the sample along the slit. Opt4 mesh had an average tear strength of approximately 28 pounds in this test, which is considered good for this application.

Mullen Method D 3786 - Bursting Strength of Fabric

This test measures the pressure required to burst a piece of fabric. Opt4 mesh was taken to the limit of the machine (200 psi) and did not burst.

Non-Standard KI Test

Opt4 mesh seats were subjected to repeated simulated cleaning with Oxi-Clean brand cleaner. After the simulated cleaning, samples were inspected for any visual changes to the mesh and were then run through the BIFMA seating durability test to determine if there were any changes to the structural integrity of the mesh. After five days of simulated cleaning there were no visual or structural changes to the mesh.

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